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Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 751 (1984): Handloom Cotton Cloth Mazri (Loomstate) [TXD
8: Handloom and Khadi]



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Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
SPECIFICATION FOR
HANDLOOM COTTON MAZRI CLOTH
(LOOMSTATE)
(*First Revision*)

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 RAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR HANDLOOM COTTON MAZRI CLOTH (LOOMSTATE) (*First Revision*)

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Indian Standard
SPECIFICATION FOR
HANDLOOM COTTON MAZRI CLOTH
(LOOMSTATE)
(*First Revision*)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 10 August 1984, after the draft finalized by the Handloom and Khadi Sectional Committee, had been approved by the Textile Division Council.

0.2 This Indian Standard, which was first published in 1955, has been taken up for revision, in order to make it up-to-date. Varieties No. 1 and 3 of this standard are based on IND/TC-0073(WS) 'Specification for cloth, mazri, heavy khaki' and IND/TC-0071 'Specification for cloth, mazri, light', issued by the Ministry of Defence, Government of India, as in the earlier version. Important changes carried out in the standard are:

- a) deletion of breaking strength values since the standard stipulates the use of yarn conforming to IS : 171-1973*;
- b) inclusion of one new variety;
- c) inclusion of inspection, marking and packing clauses; and
- d) change in colour fastness requirements.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Specification for grey cotton yarn (*second revision*).

†Rules for rounding off numerical values (*revised*).

1. SCOPE

1.1 This standard prescribes the constructional particulars and other requirements of four varieties of handloom cotton mazri cloth (loomstate).

2. TERMINOLOGY

2.1 Mazri — This is a coarse cotton fabric produced from a blend of grey and black dyed cottons. The fabric is usually woven in plain construction in a relatively open reed and pick.

3. MANUFACTURE

3.1 Yarn — The cotton yarn used in the manufacture of cloth shall conform to IS : 171-1973*.

3.2 Cloth — The cloth shall be free from substances liable to cause subsequent tendering.

4. REQUIREMENTS

4.1 The constructional particulars of cloth shall conform to those given in Table 1. Count of yarn is given for guidance only.

4.2 The mazri cloth shall conform to the requirements given in Table 2.

4.3 If in order to illustrate or specify the indeterminable characteristics such as general appearance, lustre, feel and shade of the cloth, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respects.

4.3.1 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

5. INSPECTION

5.1 The cloth when visually inspected should be reasonably free from the following defects (*see* IS : 4125-1967†):

- a) More than two adjacent ends running parallel, broken or missing and extending beyond 20 cm;
- b) Weft crack or more than two missing picks across the width of the material;

*Specification for grey cotton yarn (*second revision*).

†Glossary of terms pertaining to defects in fabrics.

**TABLE 1 CONSTRUCTIONAL PARTICULARS OF HANDLOOM COTTON MAZRI CLOTH
(LOOMSTATE)**

(Clause 4.1)

VARIETY No.	COUNT OF YARN (FOR GUIDANCE ONLY)		ENDS/ cm	PICKS/ cm	MASS, g/m ²	LENGTH	WIDTH	WEAVE
	Cotton Count (Universal Count)							
	Warp	Weft						
	(1)	(2)						
1	8 _s (74 tex)	8 _s (74 tex)	19	16	295	20 or as agreed	80	Cellular
2	10 _s (60 tex)	10 _s (60 tex)	16	14	205		70	Plain or
3	14 _s (42 tex)	14 _s (42 tex)	19	19	185		70	2/2 twill -do-
4	20 _s (30 tex)	20 _s (30 tex)	20	20	130		90 (or as agreed)	Plain or twill
TOLERANCE	—	—	± 5	± 5	± 5	see Note	± 2	—
METHOD OF TEST	—	—	IS : 1963-1981*		IS : 1964-1970†	IS : 1954-1969‡		Visual

NOTE — The length shall be not less than the declared or marked value.

*Methods for determination of threads per unit length in woven fabrics (*second revision*).

†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).

‡Methods for determination of length and width of fabrics (*first revision*).

- c) Prominently noticeable weft bar due to the difference in raw material, count, twist, lustre, etc;
- d) Noticeable warp or weft float in the body;
- e) Noticeable selvage defects;
- f) Noticeable oil or other stains;
- g) Noticeable hole, cut or tear up to 3 mm in size;
- h) Smash rupturing the texture of the fabric;
- j) Undressed snarls noticeable throughout the piece;
- k) Conspicuous gout due to foreign matter usually lint or waste woven into cloth;
- m) Conspicuous broken pattern; and
- n) Any other flaw which would mar the appearance or effect the serviceability or durability of the cloth.

TABLE 2 REQUIREMENTS OF HANDLOOM COTTON MAZRI CLOTH

(Clause 4.2)

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
(1)	(2)	(3)	(4)
i)	Colour fastness to:		
	a) Light	5 or better	IS : 686-1957* or IS : 2454-1967†
	b) Washing: Test 1:		
	i) Change in colour	4 or better	IS : 687-1979‡
	ii) Staining on cotton	4 or better	
	c) Perspiration:		
	i) Change in colour	4 or better	IS : 971-1956§
	ii) Staining on cotton	4 or better	
	d) Rubbing (dry rubbing)	4 or better	IS : 766-1956
ii)	Scouring loss, percent, <i>Max</i>	10	IS : 1383-1977¶ (Mild method)

*Method for determination of colour fastness of textile materials to daylight.

†Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

‡Method for determination of colour fastness of textile materials to washing: Test 1 (second revision).

§Method for determination of colour fastness of textile materials to perspiration.

||Method for determination of colour fastness of textile materials to rubbing.

¶Methods for determination of scouring loss in grey and finished cotton textile materials (first revision).

6. MARKING

6.1 The cloth shall be suitably marked or labelled with the following information:

- a) Name of the material and variety number;
- b) Manufacturer's name, initials or trade-mark, if any; and
- c) Length and width of the piece.

6.1.1 The cloth may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Mark) Act, and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

7. PACKING

7.1 Unless otherwise agreed upon by the buyer and seller, the cloth shall preferably be packed in bales or cases in conformity with the procedure laid down in IS : 1347-1972* or IS : 293-1980†.

8. SAMPLING

8.1 The quantity of handloom cotton mazri cloth of the same variety, width and colour delivered to a buyer at a time shall constitute a lot.

8.2 To ascertain the conformity of the lot to the requirements of this standard, sample shall be drawn and inspected from each lot separately.

8.3 The number of pieces to be selected at random for inspection shall be in accordance with Table 3.

*Specification for inland packaging of cotton cloth and yarn (*first revision*).

†Code of seaworthy packaging of cotton yarn and cloth (*third revision*).

TABLE 3 SAMPLE SIZE AND PERMISSIBLE NUMBER OF NON-CONFORMING PIECES*(Clause 8.3)*

LOT SIZE	SAMPLE SIZE	PERMISSIBLE NUMBER OF NONCONFORMING PIECES	SUB-SAMPLE SIZE	PERMISSIBLE NO. OF NONCONFORMING PIECES
(1)	(2)	(3)	(4)	(5)
Up to 25	3	0	2	0
26 to 50	5	0	2	0
51 to 150	8	0	3	0
151 to 300	13	1	3	0
301 to 500	20	1	5	0
501 to 1 000	32	2	8	1
1 001 and above	50	3	8	1

8.4 Number of Tests and Criteria for Conformity

<i>Characteristics</i>	<i>Number of Tests</i>	<i>Criteria for Conformity</i>
Visual inspection, ends, picks, length and width	According to col 2 of Table 3	Number of nonconforming pieces not to exceed corresponding number given in col 3 of Table 3
Colour fastness to washing, perspiration, rubbing and scouring loss	According to col 4 of Table 3	All the test specimens meet the corresponding requirements
Colour fastness to light	2 for lot size of 300 or less and 3 otherwise	- do -

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INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

QUANTITY	UNIT	SYMBOL
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

QUANTITY	UNIT	SYMBOL
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

QUANTITY	UNIT	SYMBOL	DEFINITION
Force	newton	N	1 N = 1 kg.m/s ²
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m ²
Frequency	hertz	Hz	1 Hz = 1 c/s (s ⁻¹)
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m ²